

### *Amendments*

In accordance with 37 CFR §1.121, please amend the above-identified application as set forth below.

#### *Amendments to the Claims:*

Please amend the claims as set forth below.

1. (Previously Presented) A heat exchanger, comprising:  
a strand of helicoidal conduit defining a plurality of loops spaced along an axis, said loops defining a plurality of gaps therebetween;  
at least one fin being attached to said conduit at a plurality of locations including at least two of said loops such that said at least one fin crosses at least one of said plurality of gaps.
2. (Currently Amended) The heat exchanger according to claim 1, wherein a cross section of said ~~tube~~ conduit is selected from the group consisting of circular, elliptical and lenticular, ~~triangular, square, rectangular, and multi-sided polygons.~~
3. (Original) The heat exchanger according to claim 1, further comprising a plurality of fins and said plurality of fins are spaced apart at regular intervals with one another.
4. (Original) The heat exchanger according to claim 1, wherein said fin is continuous.
5. (Original) The heat exchanger according to claim 1, wherein said fin is comprised of fin segments.
6. (Currently Amended) The heat exchanger according to claim 1, said helicoidal-shaped ~~tube~~ conduit having an open core and further comprising a blower apparatus having an impeller rotably mounted within said core.

7. (Currently Amended) The heat exchanger according to claim 1, further comprising a blower apparatus whose impeller is rotably mounted around said helicoidally shaped ~~strand~~ conduit.

8. (Currently Amended) The heat exchanger according to claim 1, wherein the loop of the said helicoidally shaped ~~strand~~ conduit has a configuration selected from the group consisting of circular, elliptical and lenticular, ~~triangular, square, rectangular, and multi-sided polygons.~~

9. (Currently Amended) The heat exchanger according to claim 1, wherein said ~~tube~~ conduit includes a plurality of micro-channels.

10. (Currently Amended) The heat exchanger according to claim 1, wherein said helical ~~tube~~ conduit forms a first winding and said fin forms a second winding, and wherein said first and second windings alternate in an axial direction.

11. (Currently Amended) The heat exchanger according to claim 1, wherein said fin includes a plurality of openings and said ~~tube~~ conduit passes through at least one opening of said plurality of openings.

12. (Currently Amended) The heat exchanger according to claim 10, wherein said plurality of openings are formed by a plurality of through-holes equal to the number of helicoidal ~~tube~~ conduit turns in a longitudinal direction of said plurality of fins and said through-holes receive said ~~tube~~ conduit.

13– 19. (Cancelled)

20. (Currently Amended) A helicoidal tube heat exchanger comprising:

a tube adapted to receive and to output a first working fluid;  
said tube being substantially continuously helical such as to define at least one interval space between at least two loops of said tube; and  
a fin in thermodynamic communication with said tube and bridging said at least one interval space.

21. (Cancelled) The helicoidal tube fin heat exchanger according to claim 20, said helical tube forming a first winding, said fin forming a second winding, and wherein said first and second windings alternate in an axial direction.

22. (Original) The helicoidal tube fin heat exchanger according to claim 20, wherein said fin includes openings and said tube passes through said openings.

23. (Original) The helicoidal tube fin heat exchanger according to claim 20, said helical tube having an open core and further comprising a blower apparatus having an impeller rotably associated with the said tube.

24. (Original) The helicoidal tube fin heat exchanger according to claim 20, wherein said tube includes a plurality of micro-channels and said first working fluid is distributed in said plurality of micro-channels.

25. (Original) The helicoidal tube fin heat exchanger according to claim 20, wherein said fin has first and second surfaces formed by folding a first sheet of a heat conductive material back and forth on itself to provide accordion-like folds which define said fin and attaching said tube to said fin along the fold surface.

26. (Original) The helicoidal tube fin heat exchanger according to claim 1, where the fin surface is selected from the group consisting of plain, perforated, louvered, slotted, wavy, and spine.

27. (Cancelled) The helicoidal tube fin heat exchanger according to claim 9, where the cross section of the micro-channels is selected from the group consisting of circular, elliptical, lenticular, triangular, square, rectangular, and multi-sided polygons.

28. (Currently Amended) The heat exchanger according to claim 1, said helicoidal shaped ~~tube~~ conduit having an open core and further comprising a fan apparatus having an impeller mounted over said core.

29. (New) A heat exchanger, comprising:  
a conduit wound as a spiral strand having a helicoidal shape, said helicoidal shape having substantially no straight portions wherein the helicoidally shaped conduit has a plurality of loops; and  
a fin in contact with and extending between said loops.

30. (New) A heat exchanger, comprising:  
a conduit wound as a spiral having a helicoidal shape, said helicoidal shape having substantially no corners wherein the helicoidally shaped conduit has a plurality of loops; and  
a fin in contact with and extending between said loops.